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To: Janet Mills, Attorney General

Fr: Marcella Sorg, PhD

Cc: Mark Flomenbaum, MD

Margaret Greenwald, MD

Clare Bryce, MD

Re: Drug deaths January-December 2015 statewide brief update

A "drug death" is identified when one or more drugs are mentioned on the death certificate as a cause or contributing factor. Most drug deaths in Maine during the last decade are caused by two or more drugs. In this analysis, deaths known to be due to pharmaceutical fentanyl and pharmaceutical morphine have been excluded from totals for illicit fentanyl and heroin. Heroin very often cannot be discriminated from morphine in toxicology, so many death certificates mention heroin/morphine as the cause, although we know most of these are probably heroin deaths, based on other evidence. In this analysis, after known pharmaceutical morphine deaths were removed, "heroin" and "heroin/morphine" deaths were combined in one "heroin" total.

- In 2015 there were 272 drug-induced deaths statewide, 31% more than in 2014, which had 208. The increase in drug deaths during 2015 continues a multi-year rise in deaths due to heroin and non-pharmaceutical fentanyl, sometimes in combination with each other. During the second half of the year there were 20% more deaths due to non-pharmaceutical fentanyl and acetyl fentanyl than in the first half of the year, and 5% more deaths due to heroin in the second half compared to the first half.
- 157 (58%) of the 272 total drug deaths were due either to heroin (107 deaths, 39% of all drug deaths) and/or non-pharmaceutical fentanyl or acetyl fentanyl (87 deaths, 32% of all drug deaths) with a wide variety of co-intoxicant combinations with other drugs or alcohol. Of the 87 deaths due to fentanyl and/or acetyl fentanyl, 74 were due to fentanyl and 32 to acetyl fentanyl (19 of these deaths were due to a combination of fentanyl and acetyl fentanyl).
- 111 (41%) of the 272 deaths were due to pharmaceutical opioids (drugs used medically for pain control), usually in combination with other drugs. The number of these deaths is up slightly from 101 in 2014.

DEMOGRAPHICS

- Of the 272 deaths, 182 (67%) were male, and 33% female, continuing the same pattern as previous years.
- The ages of the decedents ranged from 18-89, mostly under 60. The average age was 42, slightly older than in previous years. Of the 272 decedents, 5% were 18-24, 13% 25-29, 15% 30-34, 14% 35-39, 10% 40-44, 11% 45-49, 14% 50-54, 9% 55-59, and 6% 60 and over.

GEOGRAPHIC DISTRIBUTION

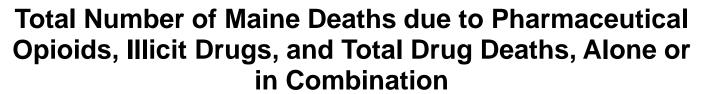
- Counties with 10 or more deaths
 - o Androscoggin, 27 deaths, 10% of statewide deaths)
 - o Cumberland, 86 deaths, 32% of statewide deaths
 - o Kennebec, 33 deaths, 12% of statewide deaths
 - o Penobscot, 26 deaths, 10% of statewide deaths
 - o York, 38 deaths, 14% of statewide deaths
 - All other counties had between 1 and 9 deaths in 2015.
- Towns/Cities with 10 or more deaths
 - o Bangor: 13 deaths (5%)
 - Lewiston: 15 deaths (6%)
 - o Portland 46 deaths (17%)

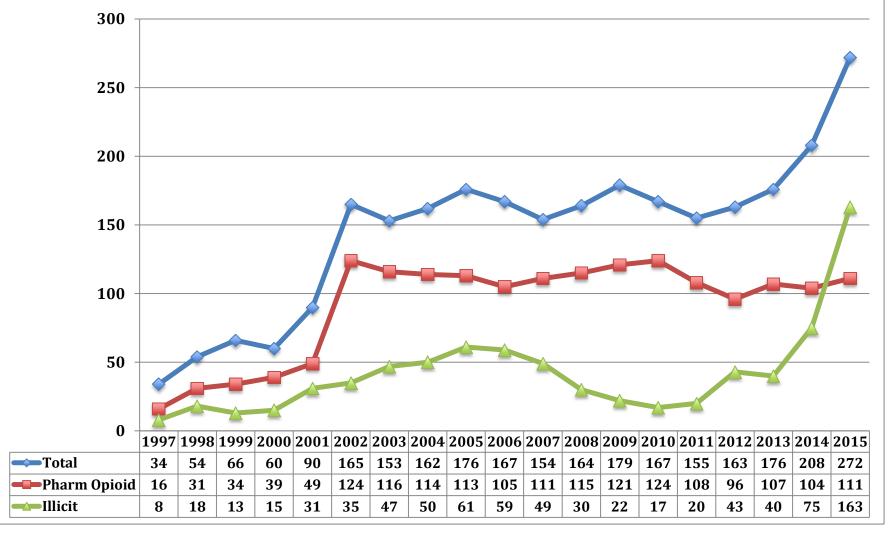
HEROIN DEATHS (N=107)

- 94 (88%) of the 107 deaths due to heroin included at least one other drug or alcohol mentioned on the death certificate as a cause
 - 24 (22%) included a pharmaceutical opiate
 - 36 (34%) included non-pharmaceutical fentanyl or acetyl fentanyl
 - 30 (28%) included alcohol
 - 28 (26%) included a benzodiazepine
 - 23 (22%) included cocaine

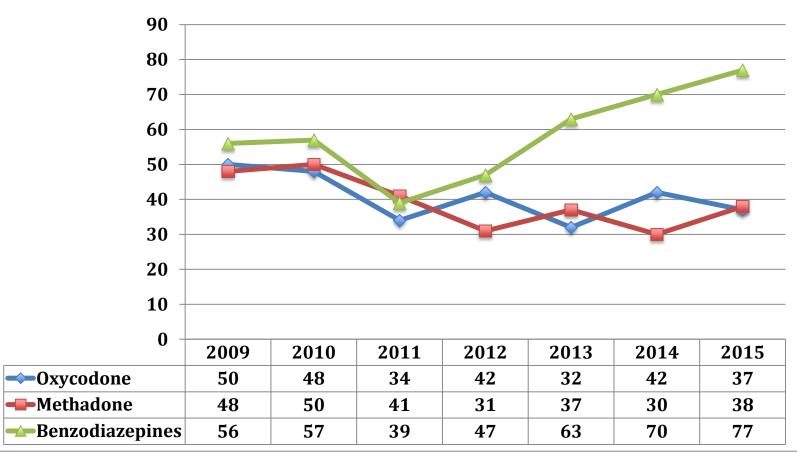
NON-PHARMACEUTICAL FENTANYL AND ACETYL FENTANYL DEATHS (N=87)

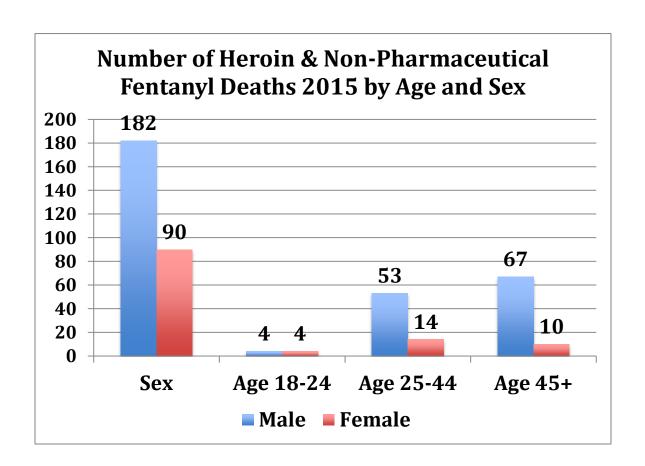
- Of the 87 deaths due to either non-pharmaceutical fentanyl or acetyl fentanyl,
 - 78% of fentanyl/acetyl fentanyl deaths included at least one other drug or alcohol
 - 36 (42%) included heroin
 - 19 (22%) included both fentanyl and acetyl fentanyl
 - 11 (13%) included a pharmaceutical opiate
 - 17 (20%) included a benzodiazepine
 - 20 (23%) included alcohol
 - 13 (15%) included cocaine

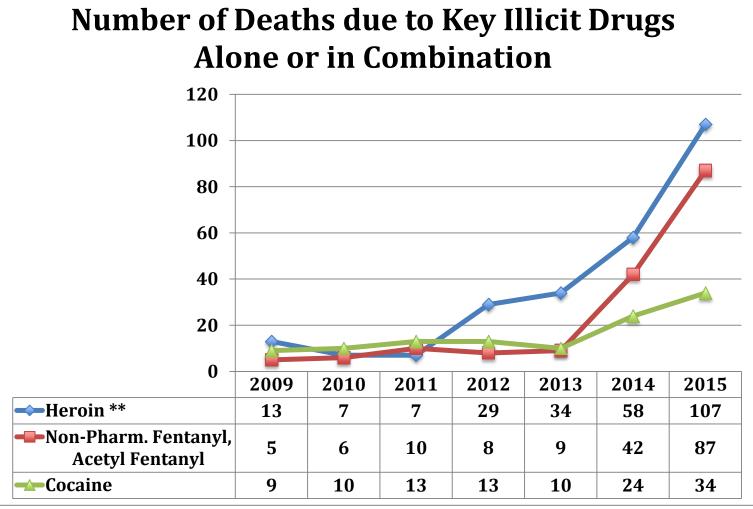




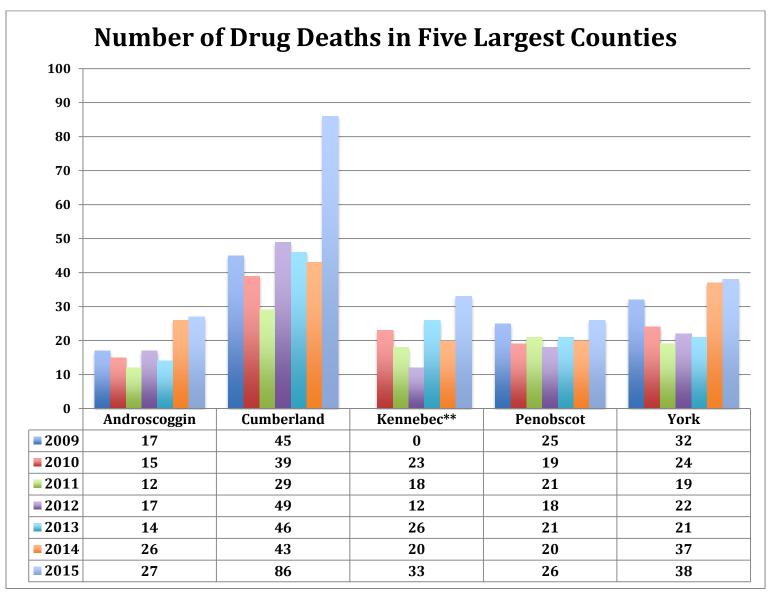








^{**} Heroin very often cannot be discriminated from morphine by toxicology, so many death certificates mention heroin/morphine as the cause, although most are probably heroin deaths, based on other evidence. In this analysis, after known pharmaceutical morphine deaths were removed, "heroin" and "heroin/morphine" deaths were combined in one "heroin" total.



^{**}Kennebec had fewer than 10 deaths in 2009.

